

Work Order ID 115397

Friday, May 02, 2014 9:11:26 AM

647.9316

B115397

115397

Page 1

Item ID: 647.9316

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Crossbar Bracket

Start Date: 3/31/2014 Start Qty: 10.00

10

Cust Item ID:

Required Date: 5/2/2014 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals:

Process Plan:

C2

Date: 14/05/02

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

647.9300

110

0.00

110

Outsource5

Outsource process - Machining

Memo

ISSUE P/O:

24096

POSSIBLE SUPPLIER: ETM Industries Inc.

0.00

1- MANUFACTURE AS PER DWG

2- HARD ANODIZE BLACK AS PER DWG

3- PRIME AS PER DWG

Certificate of conformaty required

120

Receive & Inspect for Damage & Mat'l Certs

0.00

120

Packaging

Packaging

Memo

0.00

C2 14/05/06 10

14/17/28 (10)

3X SP14-8-20.

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear	General	Other	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Folio/Program	<input type="checkbox"/> Outside Dimensions
<input type="checkbox"/> Centre Not Concentric	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Grain	<input type="checkbox"/> Over/Under tolerance
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damage/Defect	<input type="checkbox"/> Hardware	<input type="checkbox"/> Part Incorrect
<input type="checkbox"/> Crimp/Kink/Ripple/Wave	<input type="checkbox"/> Burrs	<input type="checkbox"/> Inspection Incomplete/Unqualified	<input type="checkbox"/> Part Lost/Missing
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Moved
<input type="checkbox"/> Crushing	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misaligned/off center	<input type="checkbox"/> Positioned Wrong
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Power Loss/Surge
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Drawing	<input type="checkbox"/> Misread	<input type="checkbox"/> Pressure/Forced
<input type="checkbox"/> Marks/Chatter	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Off-set	<input type="checkbox"/> Set-up
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Calibration	<input type="checkbox"/> Temperature/Cure
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Fit/Function	<input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Weld
			<input type="checkbox"/> Wrong Stock Pulled
			<input type="checkbox"/> Other

Work Order ID 115397***115397***

Page 2

Friday, May 02, 2014 9:11:26 AM

Item ID: 647.9316

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Crossbar Bracket

Start Date: 3/31/2014 Start Qty: 10.00

10

Cust Item ID:

Required Date: 5/2/2014 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130

QC6- Inspect dimensions to drawing

0.00

130

QC

Memo

0.00

Quality Control

10	3	DAS 9 9-89	DAS 38 9-89	P10 →
----	---	------------------	-------------------	-------

NCR 14-4092
14/08/21

140

Identify as per dwg & Stock Location: CCK35 0.00***140***

Packaging

Memo

0.00

Packaging

IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV

10 X	DAS 28 9-89	AUG 25 2014
10 X	(7)	SP 14/

150

QC21- Final Inspection - Work Order Release 0.00

150

QC

Memo

0.00

Quality Control

ML 5 1408-25

ML 5 1408-25
14-12-10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only. ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design <input type="checkbox"/>									
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Handling/Pre <input type="checkbox"/>									
Material <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Offset/Setup <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Transport <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		
<input type="checkbox"/> Pressure/Forced Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other		



Supplier Non-Conformance Report

Reviewed
DQA:
Date:

Printed on: Wednesday, July 30, 2014

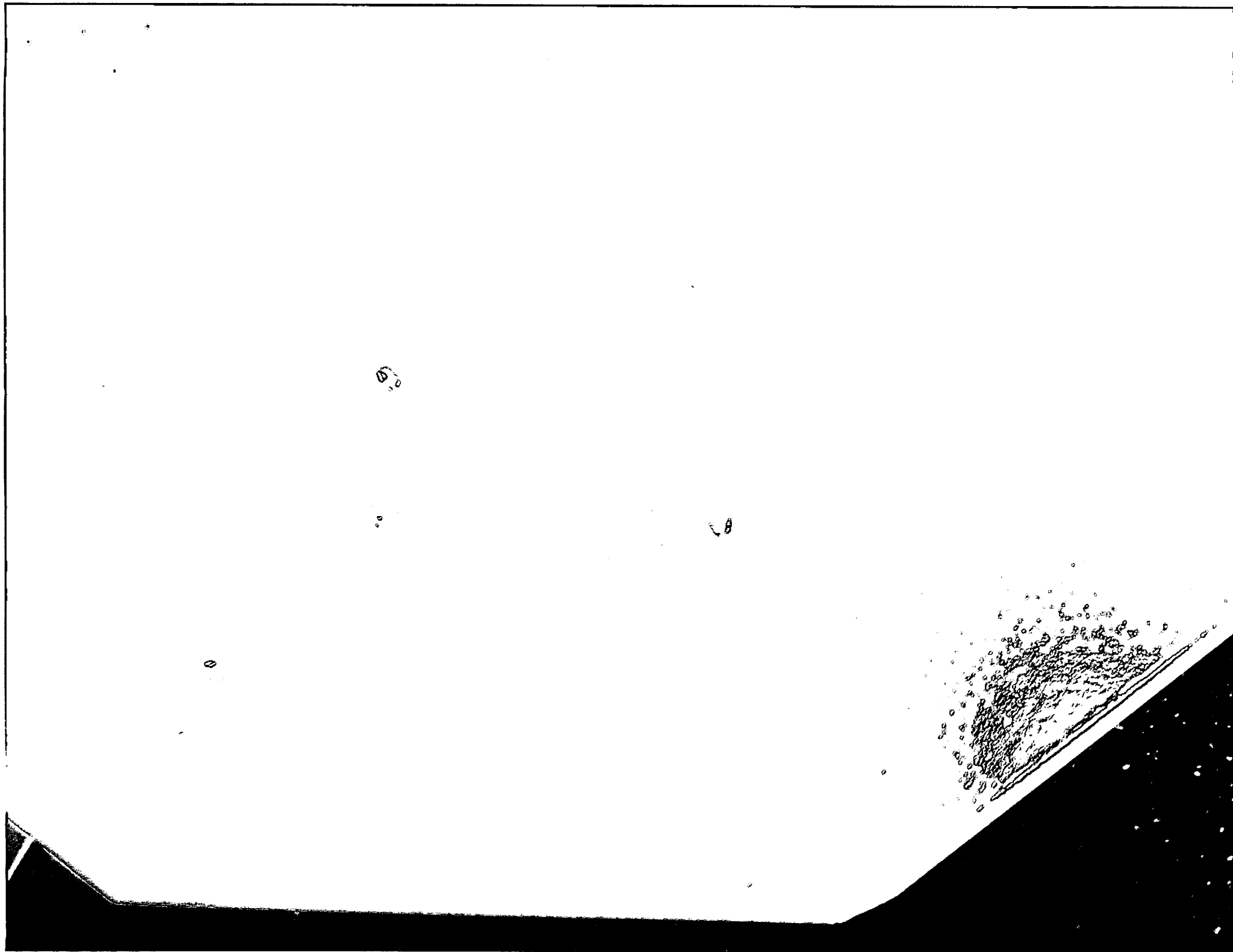
Details			
Raised Date 7/30/2014	Status Open	Owner Gregoire, Michael	Number NCR14-4092
Target Date 8/6/2014	Standard	Severity MAJOR	
Process Quality Inspection		Audit	
Raised By Person Downing, Eric M		Raised Against (Department or Supplier) ETM Industries	Fault Category Supplier
Details found during inspection that qty x 3 parts purchased & primed on PO#24096 by ETM Industries has flakes / chips / debris underneath the primer (see in attached pictures) part number 647.9316 B115397			
Keywords		Product 647.9316	
Document		Root Cause	
Closed By	Closed Date	Resolution	

Corrective Action			
Target Date 8/6/2014	Owner Gregoire, Michael	Closed Date	Closed By
Details			

Actions			
Number	Owner	Target Date	Completed Date
Details		Response	
1	Gregoire, Michael	8/6/2014	
Contact Supplier and obtain corrective action request that either parts are returned to supplier for reworking or to be scraped			

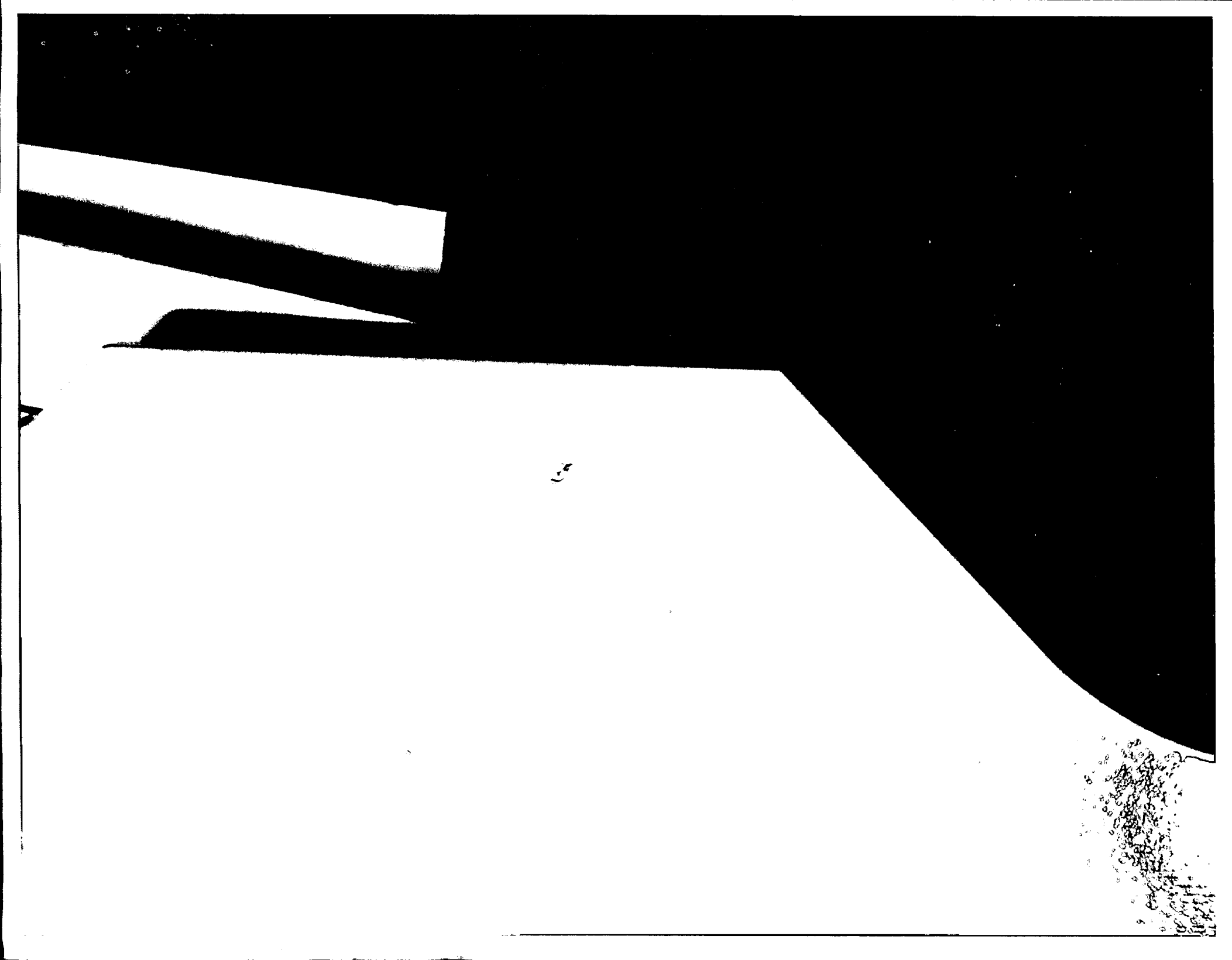
Verification & Review			
Target Date 8/6/2014	Owner Smith, Patrick	Closed Date	Closed By
Details All Actions Complete			

Actions			
Number	Owner	Target Date	Completed Date
Details		Response	



Friday,
Wor
Item ID
Revision
Item Na
Start Ja
Required

PA
W/O
DWG
NSP



Picklist Print

Friday, May 02, 2014 9:11:26 AM

Page 1

Work Order ID: 115397

115397

Parent Item: 647.9316

647 9316

Parent Item Name: Crossbar Bracket

Start Date: 3/31/2014

Required Date: 5/2/2014

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP REV:A NEW ISSUE 12-11-19 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.9316P		Purchased	No				Each	0.0000		10			
647 9316P									**				
Crossbar Bracket													
M7075T6B1.750X04.50		Purchased	No				f	4.0000					
0													
M7075T6B1 750X04 500									**				
7075-T6 BAR 1.750" X 4.500"													

N/A 14.05.02

Location

MAT005

124383

m126981

Loc Qty

4

2

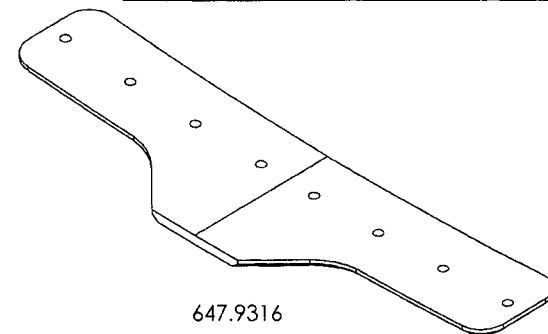
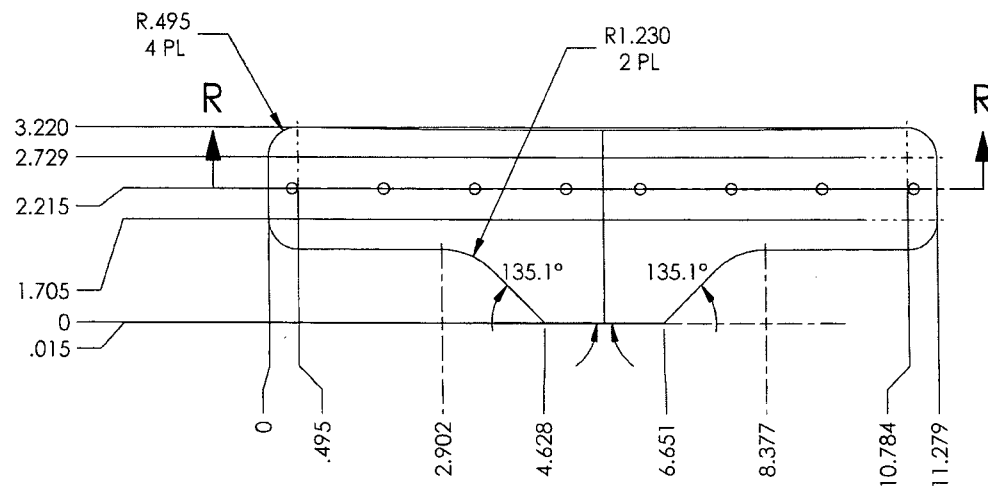
2

Loc Code

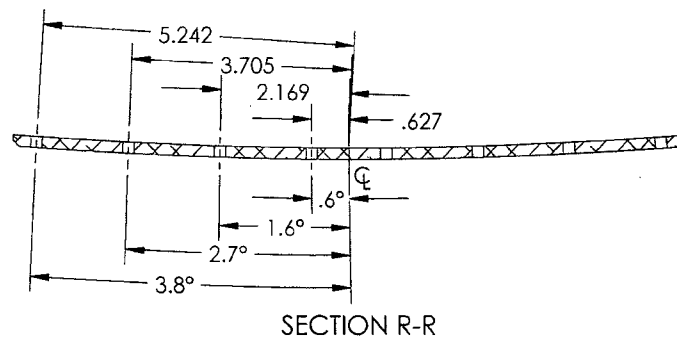
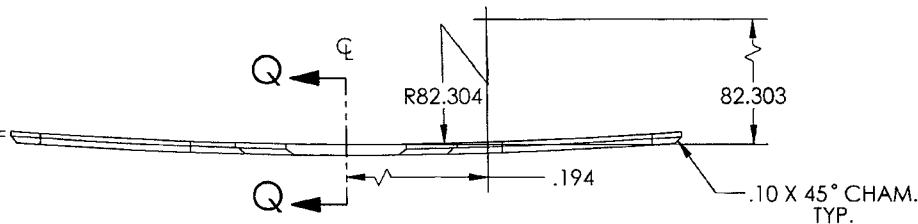
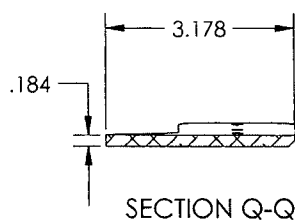
14/12/14 1.00

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



CX14/03/28



ORIGINAL DATE 11/03/01 DRAWN BY R. FOSANO CHECKED BY P. BRAVO DRAWING APPROVAL P. BRAVO CONTRACT NO.	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.005 2 PLACE DECIMALS ±.010 ANGLES ±.5°	BRACKETS		
SIZE B	CAGE CODE D7M26	DWG. NO. 647.9300	REV. N/C
SCALE NONE			SHEET 9 OF 9



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO24096

Purchase Order Date 5/6/2014

PO Print Date 5/9/2014

Page Number 1 of 3

Order From :

E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610

VC-ETM001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

RENFREW, ONTARIO K7V 4E7
CANADA

REVISED

Contact Name

Vendor Phone 613-432-6136

Ship To Contact

Ship To Phone

Ship Via: FedEx PI collect

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms

Currency

FOB

Chantal Lavoie

Net 30

CAD

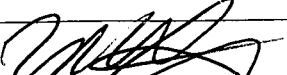
FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	647.9310P MACHINE AS PER DWG 647.9310	LH Bracket	6/27/2014 Yes 6/27/2014		10.00 Each	\$355.00	\$3,550.00
						Line Total:	\$3,550.00
2	647.9612P MACHINE AS PER DWG 647.9612 B112208	RH Fwd Wiper Deflector	6/27/2014 Yes 6/27/2014		10.00 Each	\$645.00	\$6,450.00
						Line Total:	\$6,450.00
3	647.9316P MACHINE AS PER DWG 647.9316 B115397	Crossbar Bracket	6/27/2014 Yes 6/27/2014		10.00 Each	\$215.00	\$2,150.00

Note:

5/9/2014

AS9102 Revision A First Article Inspection Form 1: Part Number Accountability

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.	
2) Also indicate if the FAI is complete per Section 5.4: <input checked="checked" type="checkbox"/> FAI Complete <input type="checkbox"/> FAI Not Complete	
19. Signature JESSIE RIOPELLE	20. Date 07/17/2014
21. Reviewed by 	22. Date 7/28/14
23. Customer Approval	24. Date

ETM Industries Inc

Page 2 of 5

AS9102 Revision A First Article Inspection

Form 2: Product Accountability – Raw Material, Specifications and Special Process(es),
Functional Testing

1. Part Number 647.9316P	2. Part Name BRACKETS	3. Serial Number N/A			4. FAI Report Number N/A
5. Material or Process – Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/N/A)	10. Certificate of Conformance Number
MATERIAL: ALUMINUM	7075-T7651 PER AMS- QQ-A-250/12	N/A	N/A	N/A	THYSSENKRUPP CERT: 719200
PROCESS: ANODIZE	HARD ANODIZE 1AW MIL-A-8625 TYPEE III, CLASS 2. COLOUR: BLACK.	N/A	N/A	N/A	VERDUN CERT: 309587-00
PROCESS: PAINT	PRETREAT PR-148 ADHESION PROMOTER, PRIME 1AW MIL-P-23377 J TYPE I, CLASS N.	N/A	N/A	N/A	RLD CERT:99401
11. Functional Test Procedure Number	12. Acceptance report number, if applicable				
Not Applicable	Not Applicable				
13. Comments					
14. Prepared By JESSIE RIOPELLE			15. Date 7/17/2014		

1. Part Number 647.9316P				2. Part Name BRACKETS		3. Serial Number N/A	4. FAI Report N/A
Characteristic Accountability				Inspection / Test Results			
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents
1	DWG SHEET 9	N/A	.015	.010	HEIGHT GAUGE AND INDICATOR	N/A	N/A
2	DWG SHEET 9	N/A	1.705	1.710	HEIGHT GAUGE AND INDICATOR	N/A	N/A
3	DWG SHEET 9	N/A	2.215	2.216	HEIGHT GAUGE AND INDICATOR	N/A	N/A
4	DWG SHEET 9	N/A	2.729	2.722	HEIGHT GAUGE AND INDICATOR	N/A	N/A
5	DWG SHEET 9	N/A	3.220	3.2193	CMM	N/A	N/A
6	DWG SHEET 9	N/A	R.495	.500	RADIUS GAUGE	N/A	N/A
7	DWG SHEET 9	N/A	R1.230	1.225	OPTICAL COMPARATOR	N/A	N/A
8	DWG SHEET 9	N/A	11.279	11.2788	CMM	N/A	N/A
9	DWG SHEET 9	N/A	10.784	10.779	HEIGHT GAUGE AND INDICATOR	N/A	N/A
10	DWG SHEET 9	N/A	8.377	8.377	HEIGHT GAUGE AND SCRIBER	N/A	N/A
11	DWG SHEET 9	N/A	135.1°	135.09°	CMM	N/A	N/A
12	DWG SHEET 9	N/A	6.651	6.651	HEIGHT GAUGE AND SCRIBER	N/A	N/A
13	DWG SHEET 9	N/A	4.628	4.630	HEIGHT GAUGE AND SCRIBER	N/A	N/A

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **7/17/2014**

ETM Industries Inc

AS9102 Revision A First Article Inspection

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Page 4 of 5

1. Part Number 647.9316P				2. Part Name BRACKETS		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
14	DWG SHEET 9	N/A	135.1°	135.08°	CMM	N/A	N/A		
15	DWG SHEET 9	N/A	2.902	2.900	HEIGHT GAUGE AND SCRIBER	N/A	N/A		
16	DWG SHEET 9	N/A	.495	.500	RADIUS GAUGE	N/A	N/A		
17	DWG SHEET 9	N/A	.184	.183	CALIPERS	N/A	N/A		
18	DWG SHEET 9	N/A	3.178	3.1791	CALIPERS	N/A	N/A		
19	DWG SHEET 9	N/A	.087	.090	CALIPER	N/A	N/A		
20	DWG SHEET 9	N/A	R82.304	OK TO CAD FILE	CMM	N/A	N/A		
21	DWG SHEET 9	N/A	82.303	OK TO CAD FILE	CMM	N/A	N/A		
22	DWG SHEET 9	N/A	.10x45° CHAM.	.094X45°	OPTICAL COMPARATOR	N/A	N/A		
23	DWG SHEET 9	N/A	.194	OK TO CAD FILE	CMM	N/A	N/A		
24	DWG SHEET 9	N/A	5.242	5.2380	CMM	N/A	N/A		
25	DWG SHEET 9	N/A	3.705	3.7035	CMM	N/A	N/A		
26	DWG SHEET 9	N/A	2.169	2.1667	CMM	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **7/17/2014**

ETM Industries Inc

AS9102 Revision A First Article Inspection

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Page 5 of 5

1. Part Number 647.9316P				2. Part Name BRACKETS		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
27	DWG SHEET 9	N/A	.627	.6247	CMM	N/A	N/A		
28	DWG SHEET 9	N/A	.6°	.40°	CMM	N/A	N/A		
29	DWG SHEET 9	N/A	1.6°	1.28°	CMM	N/A	N/A		
30	DWG SHEET 9	N/A	2.7°	2.56°	CMM	N/A	N/A		
31	DWG SHEET 9	N/A	3.8°	4.14°	CMM	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **7/17/2014**

Ship From:
THYSSENKRUPP MATERIA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L
Tel: 905 669 9444 Fax

Ship To: (1)
E T M INDUSTRIES INC
310 HALL AVENUE
RENFREW, ON K7V 2S5
Tel: 613-432-6136 Fax: 613-432-8212

D I N G No: PEC 884961
Ship Date 30Jun14 at 10:13 From PFW
Probill
Via PUROLATOR COUR
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20132)
E T M INDUSTRIES INC
P O BOX 610
RENFREW, ON K7V 4E7

B I L L O F L A D I N G

1) Our Order PEC-690239- 1 Your PO # 99050
ALUMINUM PLATE 7075-T651

.750" THICK X 4.5000" X 11.7500"

Heat Number ~ No
719200 308268

Quantity PCS
3.67 SFT 10

Wt LBS
42

Tags PCS
1 10

TOTAL:

LBS
42

ADD ON TO 690223 / 690238

DO NOT CHARGE ENERGY SURCHARGE (06-2011)
SEND MTR'S * GENERIC COFC'S WITH EVERY SHIPMENT
MUST INCLUDE THE FOLLOWING INFORMATION:

COMPANY NAME
SALES ORDER #

P.O.#
ITEM#

AND DESCRIPTION OF PRODUCT & SPECIFICATIONS
(ie. ASTM SPECS)

** DO NOT SHIP MATERIAL WITHOUT MTR'S & CoFC'S * >
> CLOSE AT NOON ON FRIDAYS <

TOTAL 1 CTN G.W. 44 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

Page: 1Continued

ALLOUÉS EN BOUTEILLE S'AGITANT CHARGES MANQUANTES DOIVENT ÊTRE
REVENUES IMMÉDIATEMENT
LES BOUTEILLES S'AGITANT MANQUANTES DOIVENT ÊTRE
REVENUES IMMÉDIATEMENT
LES BOUTEILLES S'AGITANT MANQUANTES DOIVENT ÊTRE
REVENUES IMMÉDIATEMENT
LES BOUTEILLES S'AGITANT MANQUANTES DOIVENT ÊTRE
REVENUES IMMÉDIATEMENT

B I L L O F L A D I N G

No: PEC 884961.

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 30Jun14 at 10:13 From PFW
Probill
Via PUROLATOR COUR
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20132)
E T M INDUSTRIES INC

Ship To: (1)
E T M INDUSTRIES INC

B I L L O F L A D I N G

***** TEL. 800-926-2600 *****

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTEES IMMEDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.
RETOURDE MARCHANDISES AVEC LE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE CAN NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.



CERTIFICATE OF COMPLIANCE

Date: JUNE 30, 2014

Customer: E T M INDUSTRIES INC

Whom It May Concern:

RE: Your PO 99050
Our B/L – 884961
Work order No: 690239

Items: 1 ALUMINUM PLATE 7075-T651
.750" THICK X 4.5" X 11.75"
HEAT NUMBER 719200

We certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com/msds or call 248-233-5682.

We hereby certify that the material supplied against the above order complies with the following specifications: ASTM B209

Sincerely,

YOLANDE

Thyssenkrupp Materials North America



INSPECTION CERTIFICATE № 14.10772

EN 10204 - 3.1

Certified by Russian Register



Consigner: KAMENSK URALSKY METALLURGICAL WORKS 5, Zavodskaya Str., Kamensk Uralsky, Sverdlovsk Region, 623405, Russia Tel: (3439) 39 52 22 Fax: (3439) 39 50 68				JOINT STOCK COMPANY						
Consignee: Thyssen Krupp Materials NA				Quantity, pcs.: 4						
Contract No.: N15025-S				S.O. No.: N15025						
P.O. No.: 5400217784-R01				Lot No.: 1						
Article No.: ALFLR03206 0010				Package No.: 634893						
Description of Goods: Plates				Requirements on the Products:						
Grade of Product		Dimensions, inch/mm		Material conforms to quality of alloy: 7075 T651						
		0.75"X48.5"X144.5" 19.050X1231.9X3670.3		Product conforms to all requirements of: ASTM-B209-10, AMS-QQ-A250/12AMS4045K, This product conforms to European Union RoHS Directive 2002/95/EC						
Mechanical Properties										
The Condition of Tested Standards	Lot No.	Cast No.	Quantity sample	Tensile Strength		Yield Strength (0.2% offset)		Elongation, %		Hardness, HB
				ksi	ksi	ksi	ksi	min	max	
				min	max	min	max	min	max	
Required				78.0	-	68.0	-	7.0	-	-
	719200	20-6625	6	82.9	85.1	70.1	74.8	11.5	13.5	-
Chemical Composition, %										
Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Nickel Ni	Zinc Zn	Titanium Ti	Zirconium Zr
Required	0.4	0.5	1.2-2.0	0.3	2.1-2.9	0.18-0.28	-	5.1-6.1	0.2	-
Contents	0.05	0.15-0.18	1.3	0.03	2.3-2.4	0.20	-	5.8-5.9	0.07	-
Element	Ti+Zr	Na	Tin Sn	Bismuth Bi	Plumbum Pb	Mn+Cr	Ca	Other Elements		Al
								Each	Total	
Required	-	-	-	-	-	-	-	0.05	0.15	remainder
Contents	-	-	-	-	-	-	-	0.05	0.15	remainder
Other Tests										
Method	Macro-structure	Micro-structure	UT	Electro-conductivity	SCF	Contents H2 of metals cm3/100gr	Mercury - Free "Russia is country of melt and manufacture"			
Result	-	-	-	-	-	0.23	No Weld Repair			

On behalf:

OAO KUMZ

Date:

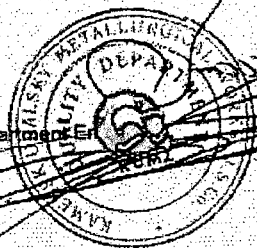
15.04.14

Inspector:

K.V. Zyryanova

Inspection Department

N.V. Alekhina



Form № QAD/3-001, Revision 01

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403236874

CstAr

CstOr 258922

Wgt.: 42 LB

Date 06/26/2014

COPPER AND BRASS SALES

MATERIAL TYPE

ALUMINIUM ALLOYS

PRODUCT DESIGNATION

2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7

"WARNING"

SMALL CHIPS,FINE TURNINGS AND DUST MAY IGNITE READILY.EXPLOSION POTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR,CHIPS,FINES,DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE.KEEP AWAY FROM IGNITION SOURCE.USE EXPLOSION-PROOF VENTILATION.KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD),A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD;OVER TIME CBD AND CANCER CAN BE FATAL,TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER,MAGNESIUM OXIDE,MANGANESE OXIDE,AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS.CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN;AND SKIN,TEETH,AND HAIR DISCOLORATION.CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES,NOSE,AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT AND CAUSE NASAL AND/OR LUNG CANCER.NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF IN THE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT.WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Aluminum, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone 248-233-5600, or visit our web site @ www.copperandbrass.com.

ALUMINUM LABEL NO. 300-1056

ISSUED 10/01/2008



Anodisation Verdun Inc.

Verdun Anodizing Inc.

3971, ave Verdun, Verdun (Quebec) H4G 1L1

AS 9100:2004

ISO 9001:2000

Certified

info@verdunanodizing.com

Tel: (514) 761-4531

Fax: (514) 769-4731

CERTIFICATE OF SUB-CONTRACTOR

ETM

ETM

C
U
S
T
O
M
E
R

E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610
RENFREW
Ontario K7V 4E7

S
H
I
P
T
O
E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610
RENFREW
Ontario K7V 4E7

Customer Order No.	Order Date	Process Date	Certificate No.
99336	21/07/14	23/07/14	309587-00

PROCESS: MIL A-8625F1 TY III Cl 2 NOIR No Seal

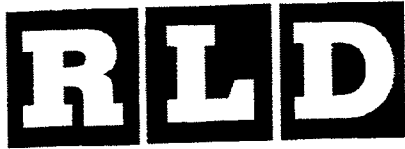
Item No.	Quantity	Description	Serial #
001	10.0	647.9316P LINE:001 CROSSBAR BRACKET PLATE JOB:9005 DUE: 25 JUL.2014	MAT:7075-T651

We hereby certify that the parts described above and furnished by E.T.M. INDUSTRIES INC. have been treated in accordance with the relevant specifications, PO requirements and that no substitution of materials has been made.

Inspector:



Verdun Anodizing Inc.



- POWDER COATING
- ELECTROSTATIC ON-SITE
- BAKED ENAMEL FINISHES

Industries Ltd.

4210 ALBION ROAD
OTTAWA, ONTARIO K1T 3W2

TELEPHONE: (613) 822-4000
FAX: (613) 822-3303

EMAIL: rld@magma.ca
WEB: www.rldindustries.com

LETTER OF COMPLIANCE

E.T.M. Industries Inc.
P.O. Box 610, 266 Hall Avenue East
Renfrew, Ontario
K7V 4E7

Purchase Order #: 99401

RLD W/O #: 77458

DATE: July 25, 2014

PART:

Quantity	Part Number	Description
10	647.9612P	R/H FWD WIPER DEFLECTOR
10	647.9310P	L/H BRACKET
10	647.9316P	CROSSBAR BRACKET

SPECIFICATION:

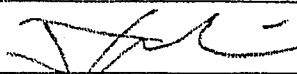

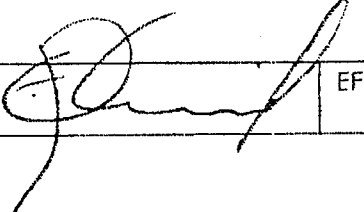
Parts were painted July 14, 2014 as follows:

Primer: 02GN084, DEFT, Aqua Green, Batch # 99460, MILS .9 DFT and Expiry Date Oct./15

Prime per IAW MIL-P-23377J, Type 1, Class N.

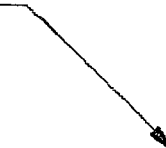
Parts also passed a non-destructive tape test.

Roger Lortie
Purchaser/Estimator/Quality Assurance
RLD INDUSTRIES LTD.

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 04249				SHEET 1 OF 1	
	DWG NO. 647.9300	REV: NC	PREPARED BY J. SOTO	DATE: 11/14/2013	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: BRACKETS					
	APPROVED BY: ENGR 	MFG 	QC 	EFF. NEXT ORDER		
TRANSACTION CODES (TC): A-ADD R-REVISE C-CREATE D-DELETE	REASON: REVISED NOTE 4				ECR: 13-037	

SHEET 1, ZONE A1 IS:

NOTES: UNLESS OTHERWISE SPECIFIED

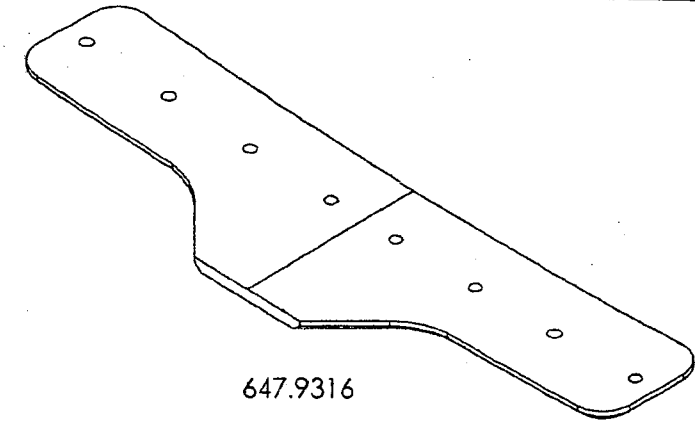
- IS 
1. MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
 2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR: BLACK;
PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J TYPE I, CLASS N.
 3. DEBURR AND BREAK ALL SHARP EDGES.
 4. IDENTIFY IAW MPP-120.
 5. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9310 LH BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
 6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9311 SUPPORT BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
 7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9312 BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
 8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9313 BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
 9. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9314 RETAINER BRACKET.SLDPRТ, LAST MODIFIED 09-26-11.
 10. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9315 RECEPTACLE BRACKET.SLDPRТ, LAST MODIFIED 11-16-12.
 11. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9316 CROSSBAR BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
 12. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9317 RH BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.

RECEIVED
NOV 14 2013

DOCUMENTS EFFECTED:	<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUCTIONS <input type="checkbox"/> ICA <input type="checkbox"/> FMS <input type="checkbox"/> BOM	CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
---------------------	---	---	--

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

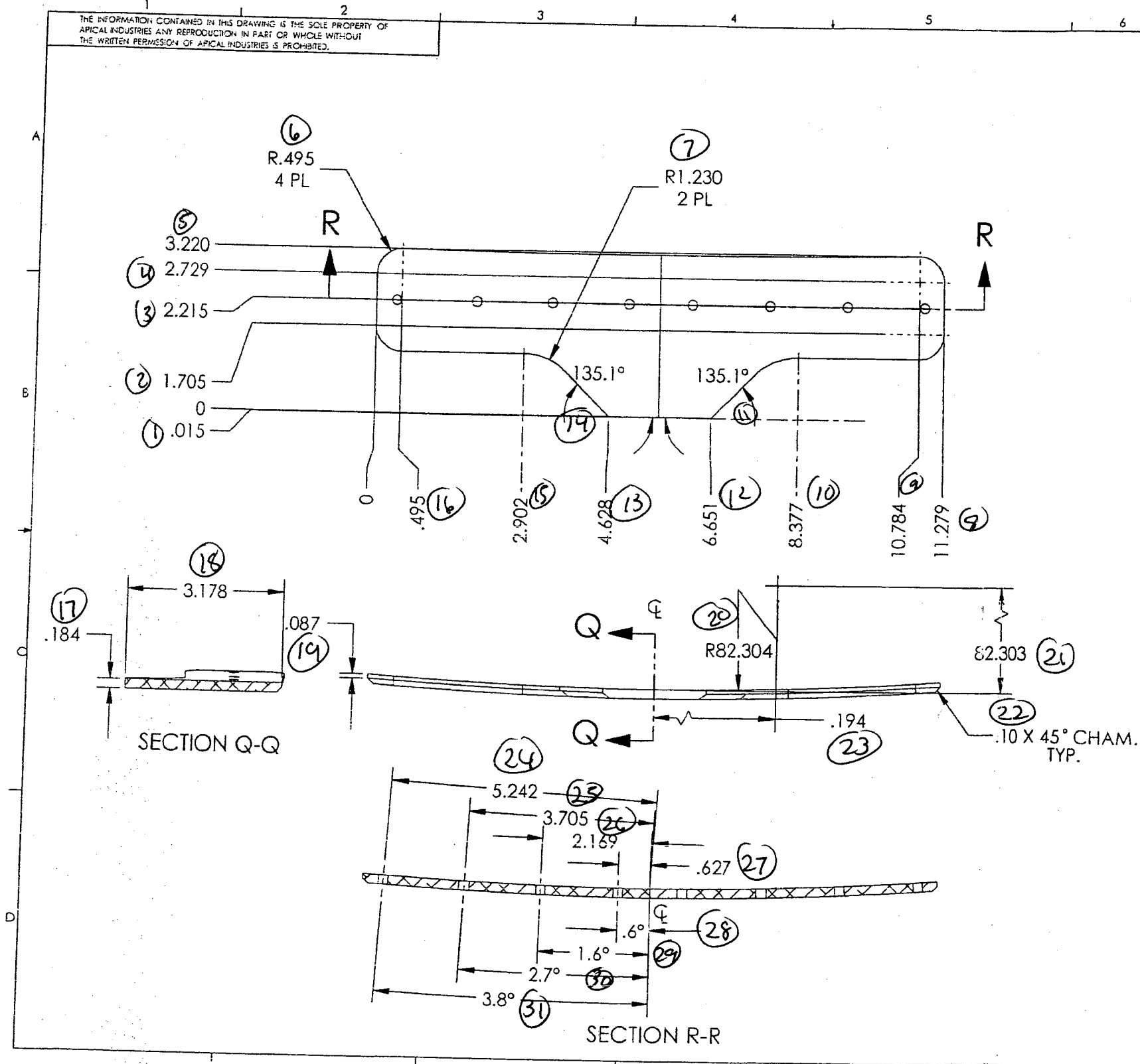
REVISION			
REV.	DESCRIPTION	DATE	APPROVED



CONTROLLED COPY

RECEIVED
APR 16 1990

ORIGINAL DATE 11-20-89		DRAWN BY F. ROSANO		CHECKED BY F. BRAVO	
DRAWING APPROVAL F. BRAVO		CONTRACT NO.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.010 ANGLES ±.5°	
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300		BRACKETS		SHEET 9 OF 9	
DWG. NO. 647.9300		SCALE NONE		REV. N/C	



THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2. COLOR: BLACK;
PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J TYPE I, CLASS N.
3. DEBURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120. LASER ENGRAVE CENTURY GOTHIC, 12 POINT P/N AND REVISION.
5. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9310 LH BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9311 SUPPORT BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9312 BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9313 BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
9. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9314 RETAINER BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
10. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9315 RECEPTACLE BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
11. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9316 CROSSBAR BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.
12. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9317 RH BRACKET.SLDPRТ, LAST MODIFIED 06-22-10.

UNINCORPORATED FCM(S)

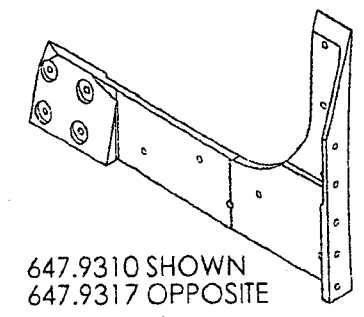
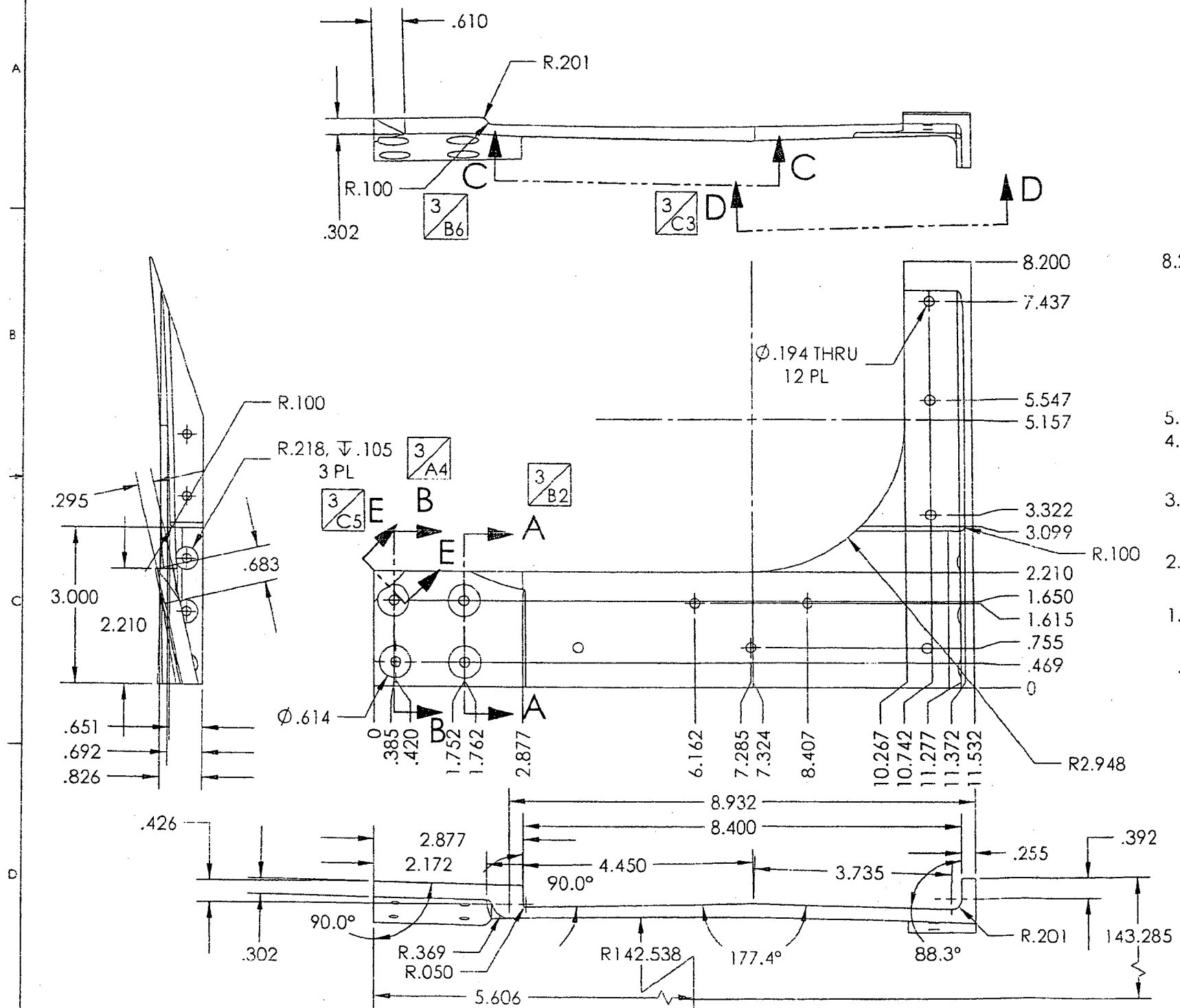
03209, 03706, 04240

	647.9317	RH BRACKET			
	647.9316	CROSSBAR BRACKET			
	647.9315	RECEPTACLE BRACKET			
	647.9314	RETAINER BRACKET			
	647.9313	BRACKET			
	647.9312	BRACKET			
	647.9311	SUPPORT BRACKET			
	647.9310	LH BRACKET			
FIND #	PART #	DESCRIPTION	MAT'L	SPEC.	

QTY	PARTS LIST	
NEXT ASSY (S)	ORIGINAL DATE 11-20-10 DRAWN BY P. ROSAND CHECKED P. BRAYO DRAWING APPROVAL P. BRAYO DATE 10-10-10 CONTRACT NO.	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300
647.8900		BRACKETS
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS = .01 1 PLACE DECIMALS = .015 3 PLACE = .005	SEE CAGE CODE Dwg. NO. 647.9300 3 07H26 SCALE NONE SHEET 1 OF 9

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REV.		DESCRIPTION	DATE	APPROVED

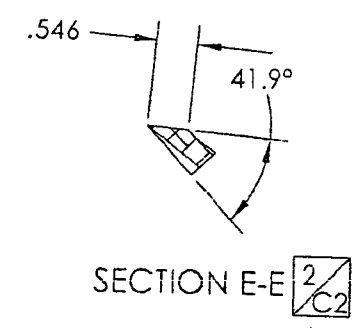
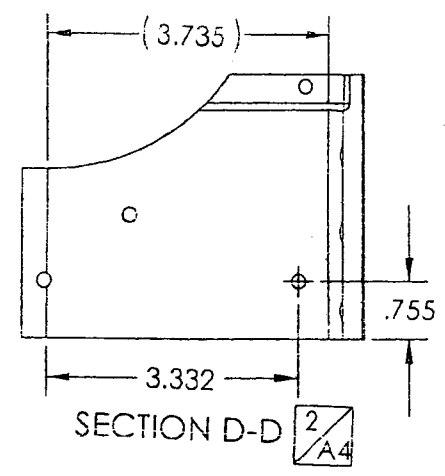
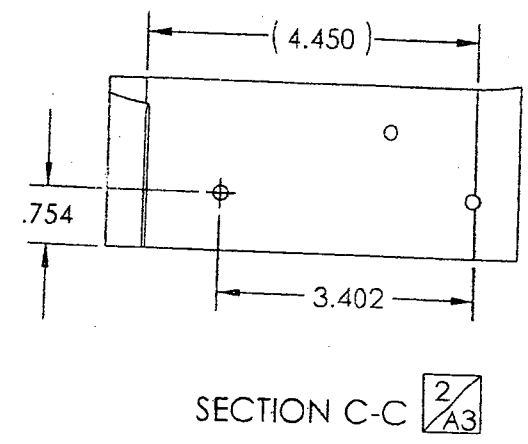
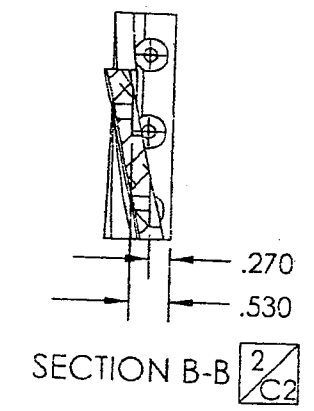
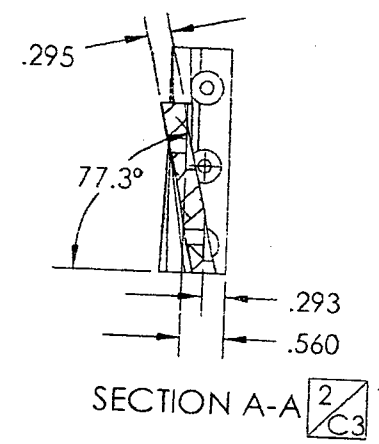


RECEIVED
APR 16 1974

SPECIAL DATE		APICAL INDUSTRIES	
W.C.D. 1974	SPOT 10	2608 TEMPLE HEIGHTS DR.	
DRAWN BY	CHECKER	OCEANSIDE, CA. 92056-3512 (760)724-5300	
P. ROSANO	P. BRAYC	BRACKETS	
DRAWING APPROVAL		SHEET 2 OF 9	
P. BRAYC		SCALE NONE	
CONSTRUCTION		SHEET 2 OF 9	
UNLESS OTHERWISE SPECIFIED		SHEET 2 OF 9	
DIMENSIONS IN INCHES		SHEET 2 OF 9	
TOLERANCES ARE:		SHEET 2 OF 9	
SPACES DECIMALS .001		SHEET 2 OF 9	
SPACES DECIMALS .005		SHEET 2 OF 9	
ANGLES 1/2°		SHEET 2 OF 9	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



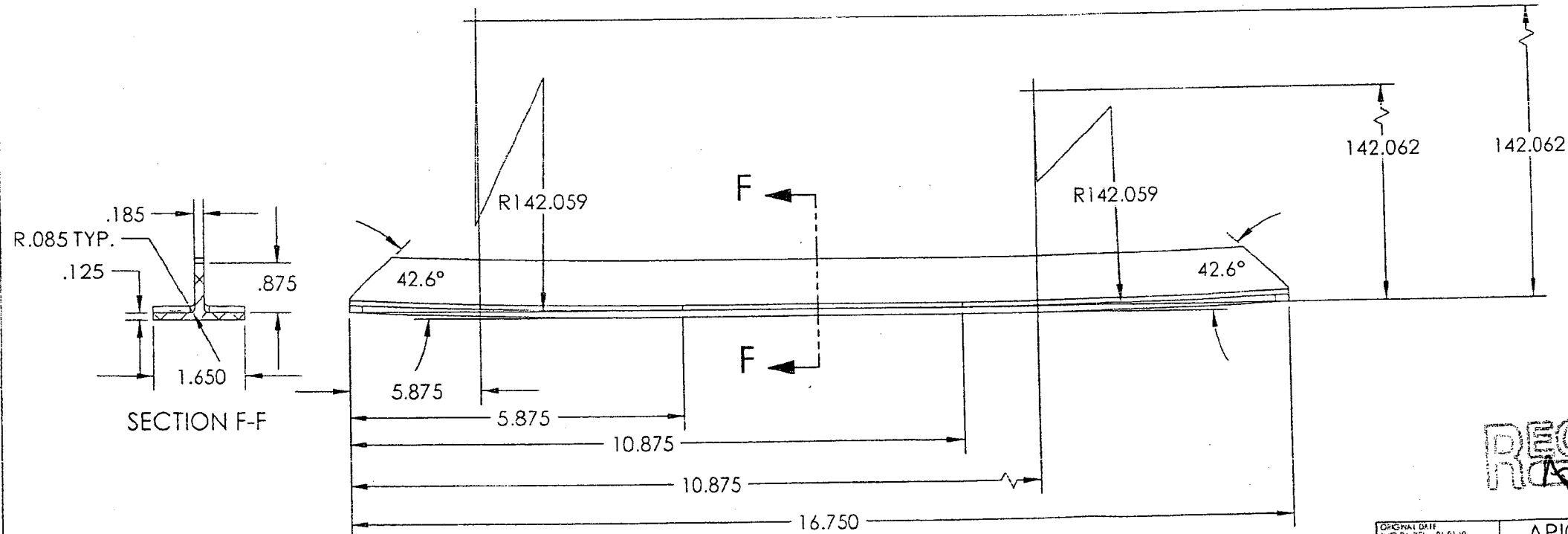
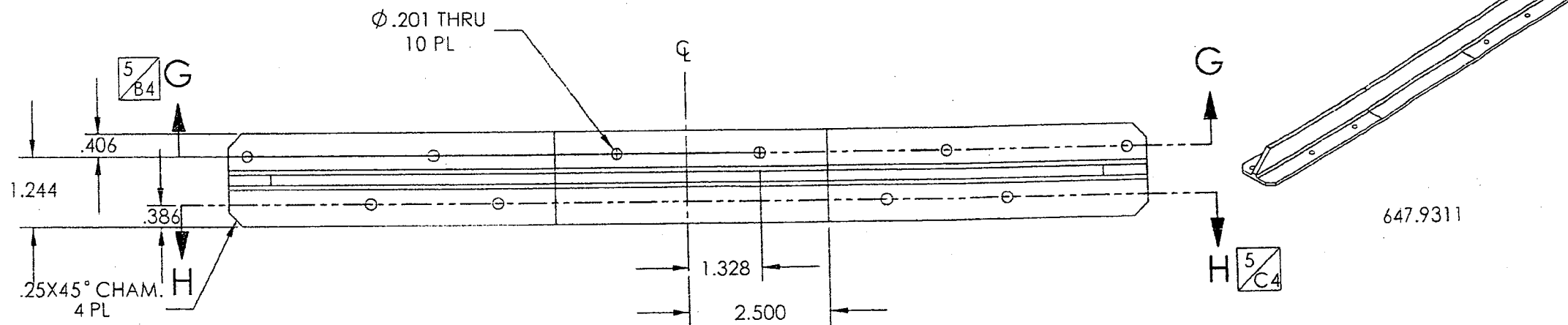
RECEIVED
DEC 16 1974

ORIGINAL DATE: 08-01-74 DRAWN BY: R. ROSAND CHECKED BY: F. BRAVO DRAWING APPROVAL: P. SPA-VO CONTRACT NO.:		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS ± .01 2 PLACE DECIMALS ± .005 ANGLES ± 5°		SEE TRADE CATALOG B 07M26	DWG NO. 647.9300 SCALE: NONE
		REV. N/C	SHEET 3 OF 9

CONTROLLED
CC-1

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

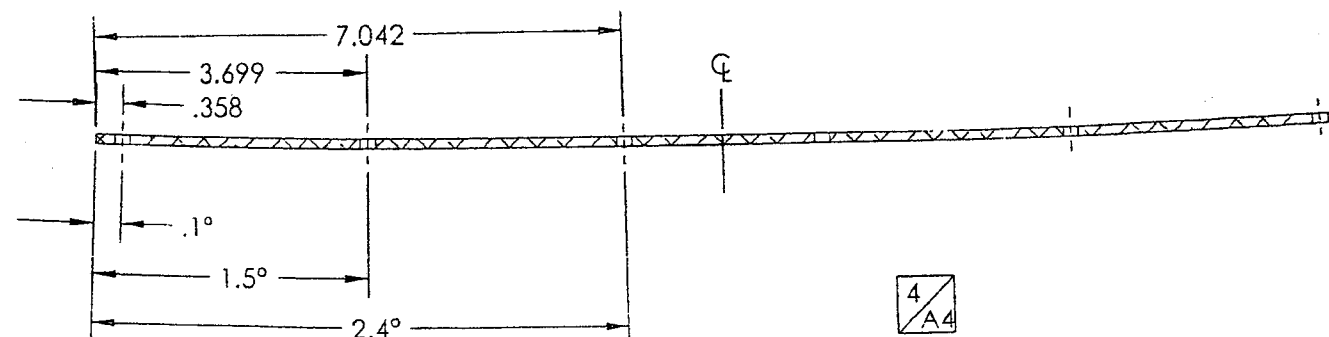


RECEIVED
APR 16 1988

ORIGINAL DATE 05-01-80		APICAL INDUSTRIES	
DRAWN BY R. KOSIHO	CHECKED P. BRAYO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAYO		BRACKETS	
CONTRACT NO.		SHEET NO.	4 OF 9
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .001 ANGLES ± .3°		SCALE: NONE	

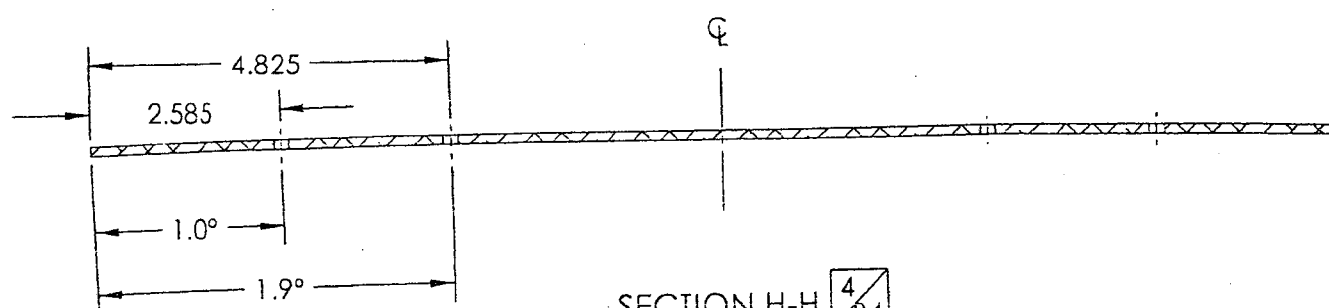
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



SECTION G-G

4
A4



SECTION H-H

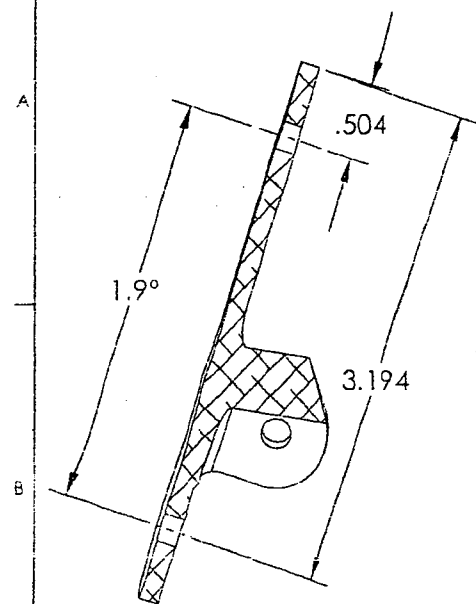
4
B4

RECEIVED
APR 16 1994

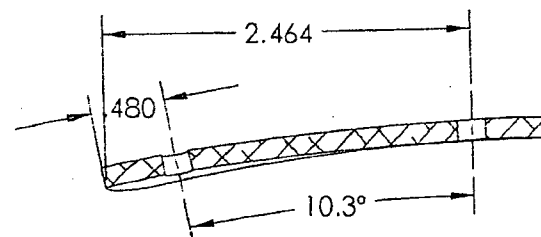
ORIGINAL DATE 11/01/89		APICAL INDUSTRIES	
DRAWN BY R. FORD		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAY		BRACKETS	
DRAWING APPROVAL 10-26-89		SCALE NONE	
CONTRACT NO.		SHEET 5 OF 9	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		DWG NO. 647.9300	
REV. 07/12/86		REV. N/C	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

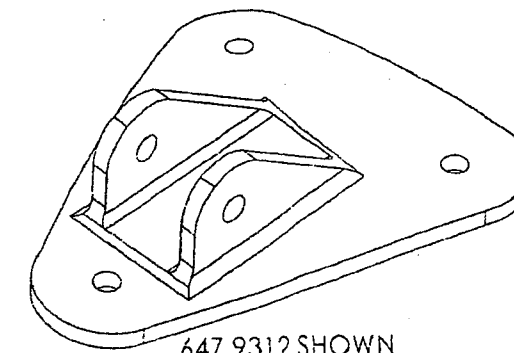
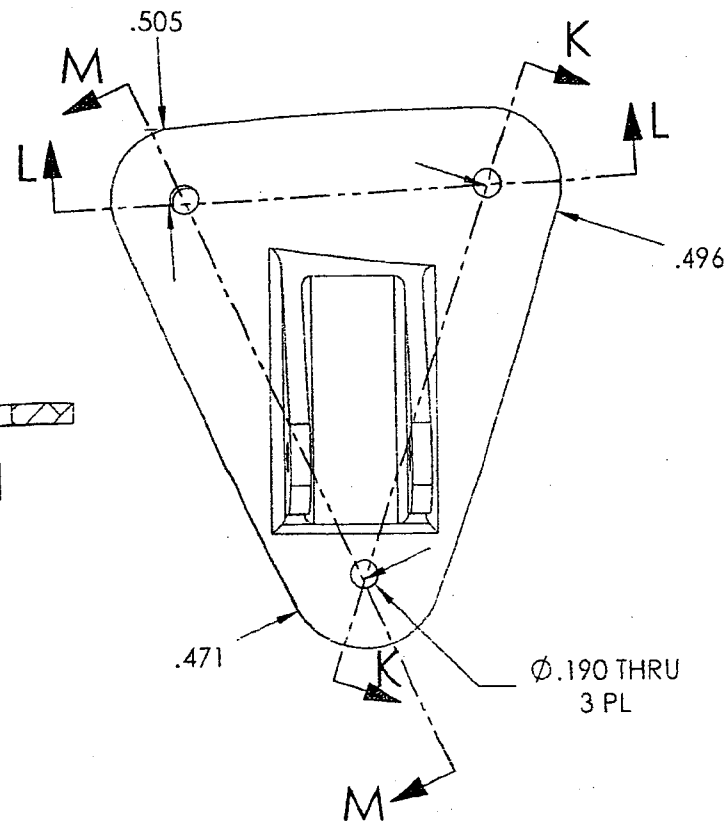
REV	DESCRIPTION	DATE	APPROVED



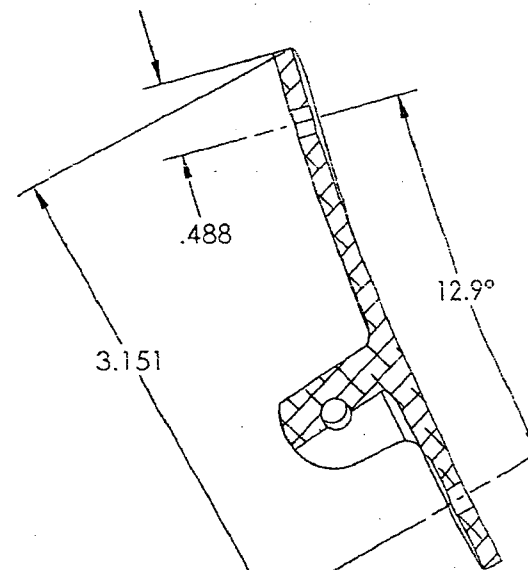
SECTION K-K



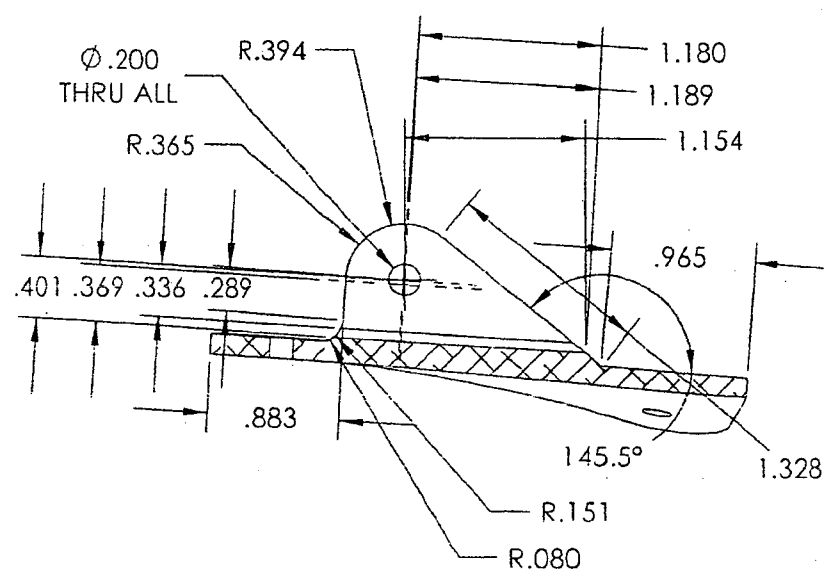
SECTION L-L



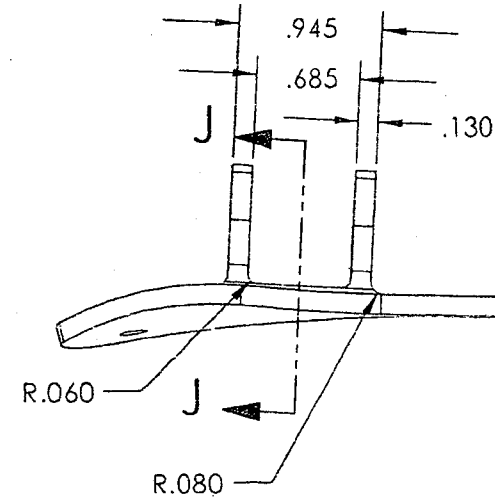
647.9312 SHOWN
647.9313 OPPOSITE



SECTION M-M



SECTION J-J



RECEIVED
APR 16 1974

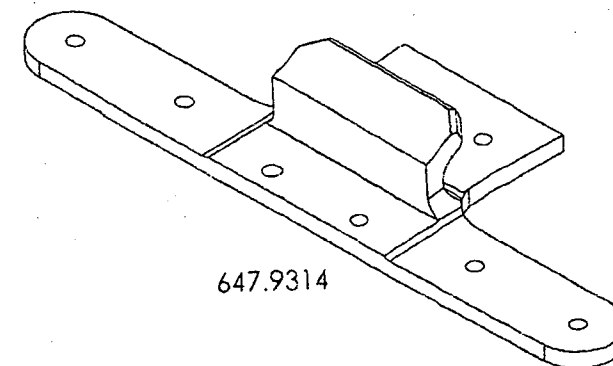
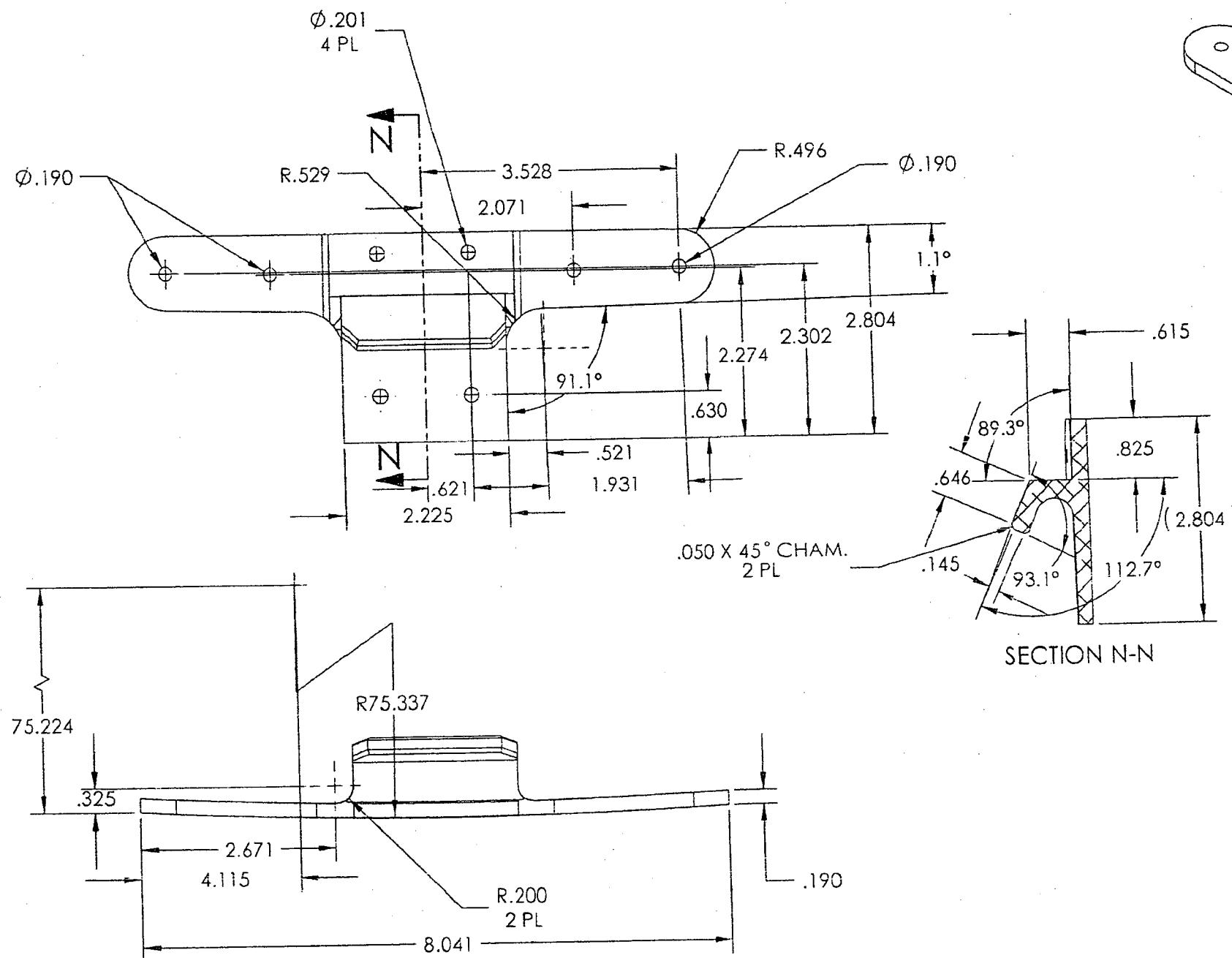
PARTS LIST

ORIGINAL DATE 11/05/73	CAD FILE C30110	APICAL INDUSTRIES	
DRAWN BY R. ROSANO	CHECKED BY P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		BRACKETS	
CONTRACT NO.		REV. 1 8 1 07/1/76	647.9300 N/C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE	SHEET 6 OF 9

ORIGINAL FILED
COPY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REV.	DESCRIPTION	DATE	APPROVED

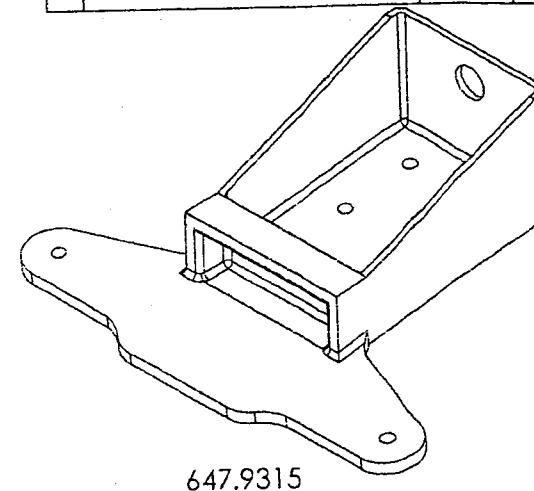
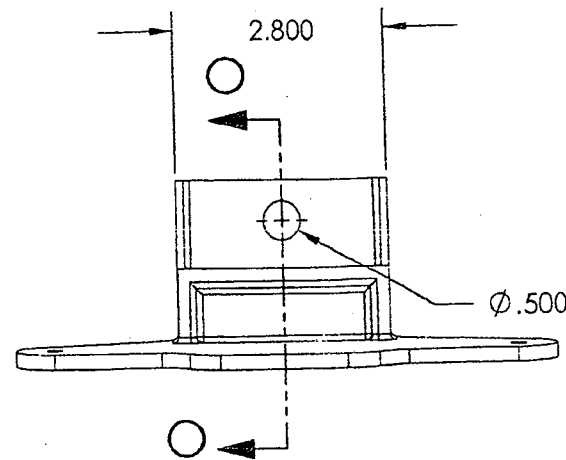
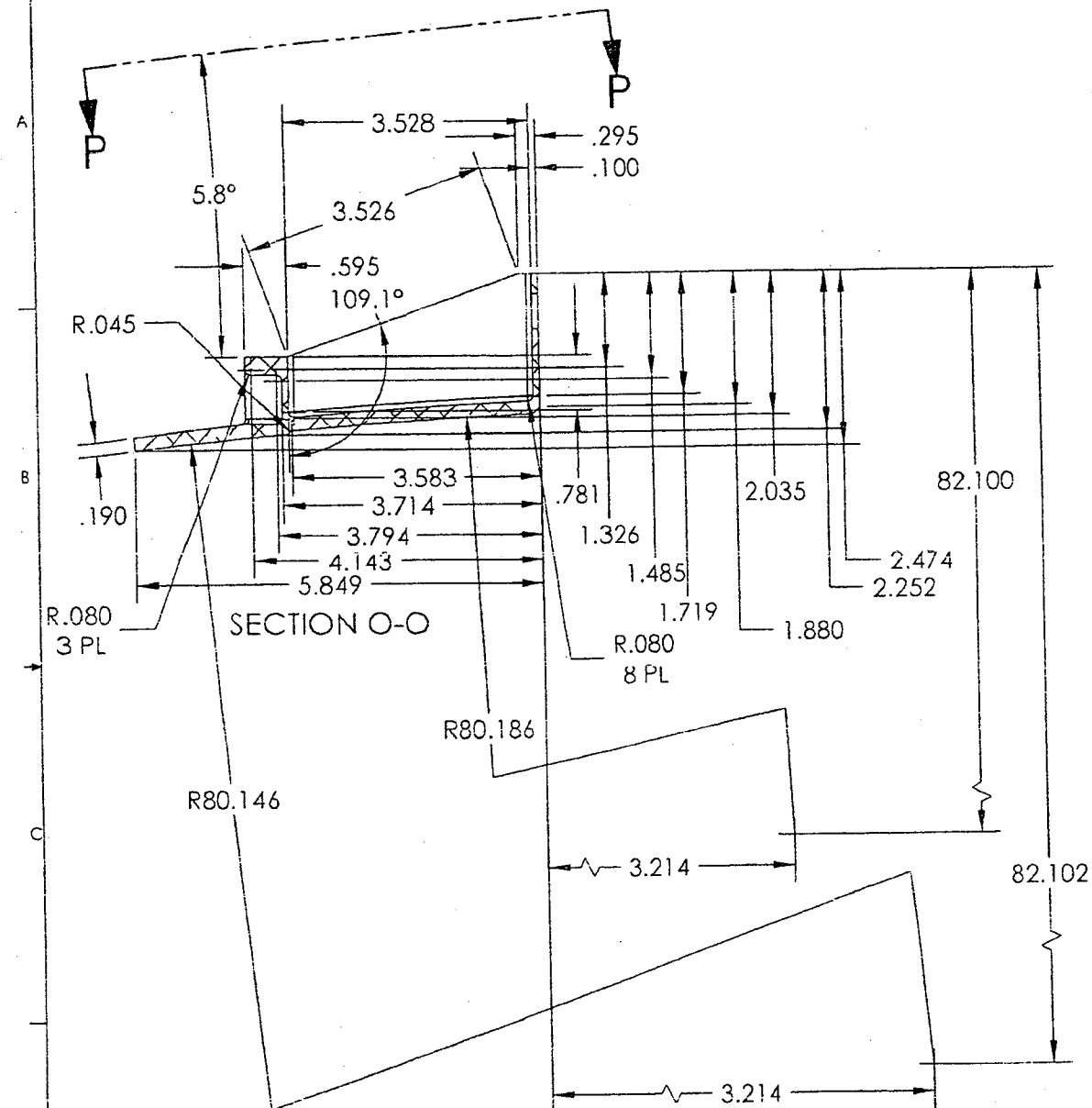


RECEIVED
APR 16 1974

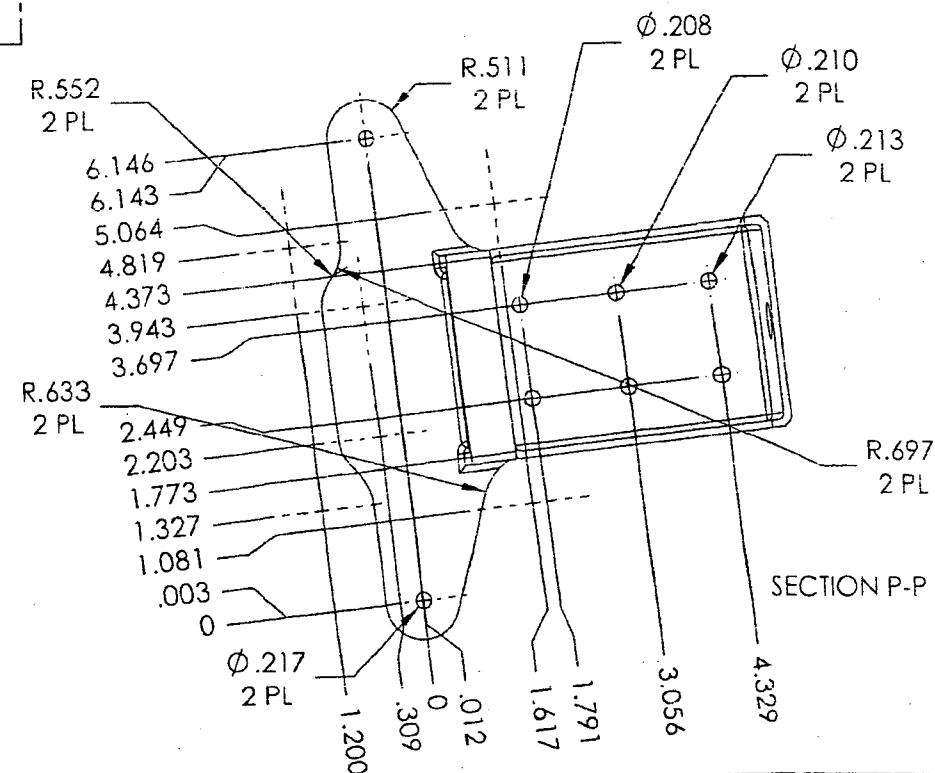
ORIGINAL DATE 11-01-71	CA-01-10	APICAL INDUSTRIES
DRAWN BY R. ROSA-HO	CHECKED P. SPAYO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5330
DRAWING APPROVAL P. SPAYO	DATE 04-05-74	BRACKETS
CONTRACTING		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ± .003 2 PLACE DECIMALS ± .010 ANGLES ± .5°	SHEET 2	CAGE CODE 071-16
	DWG. NO. 647.9300	REV. N/C
	SCALE NONE	SHEET 7 OF 9

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REV	DESCRIPTION	DATE	APPROVED



647.9315

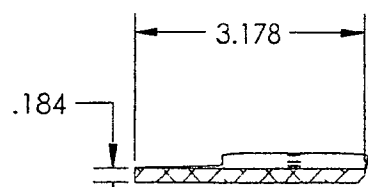
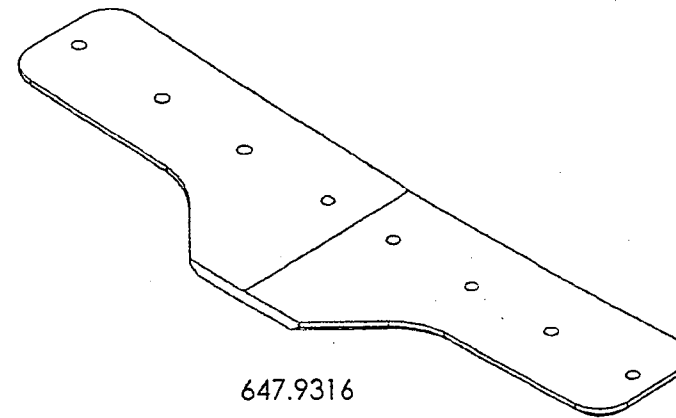
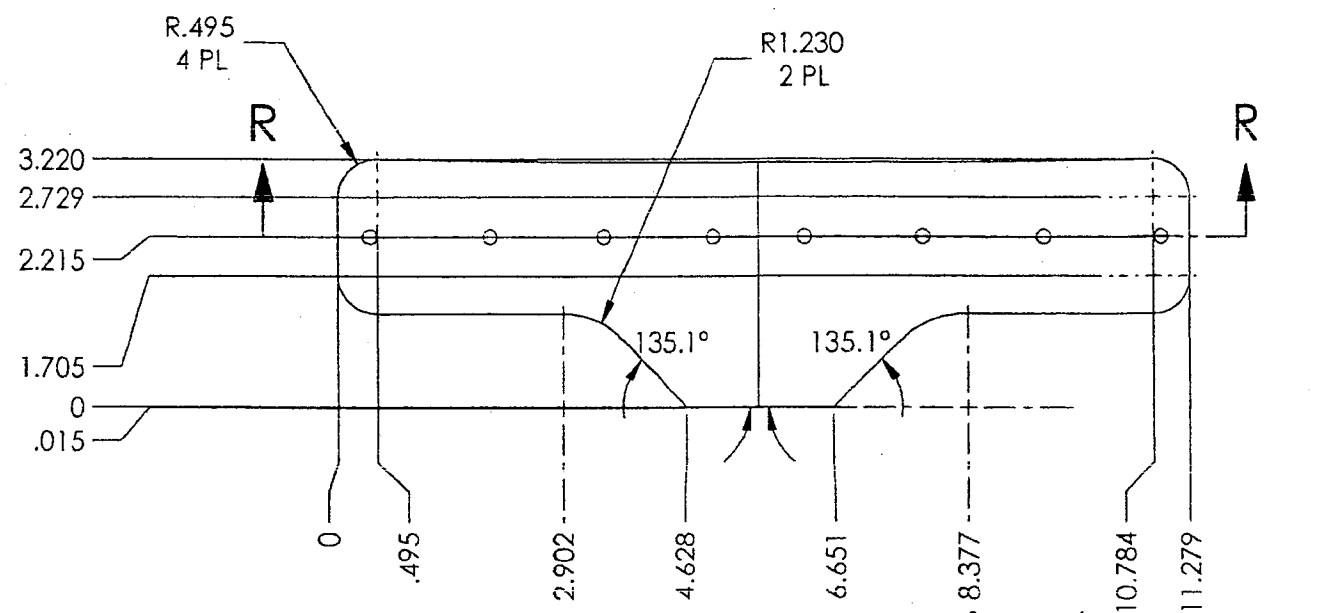


RECEIVED
DEC 16 1974

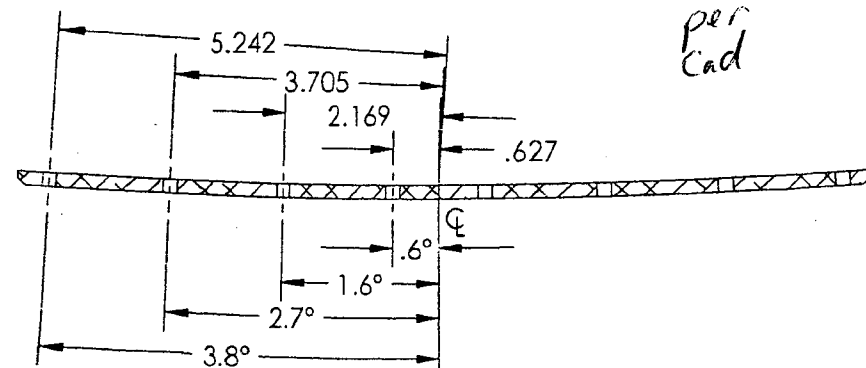
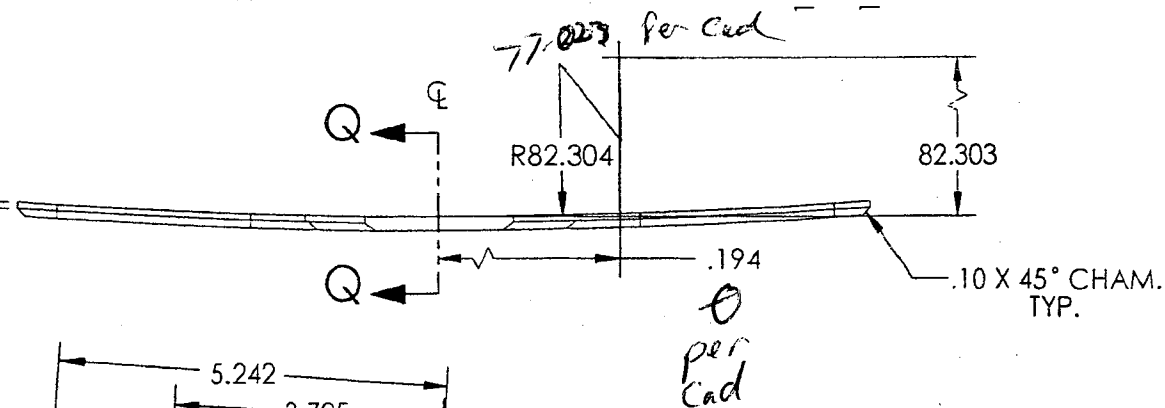
ORIGINAL DATE: 6-6-74		APICAL INDUSTRIES	
DRAWN BY: J. CRECHER		2609 TEMPLE HEIGHTS DR.	
BY: R. BRAND		OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWING APPROVAL: P. BRAND		BRACKETS	
CONTRACT NO.		SHEET 8 OF 9	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: 2 PLACES DECIMALS ±.003, 3 PLACES DECIMALS ±.010, ANGLES ±.5°		SHEET 8 OF 9	
SHEET	CAGE CODE	DWG NO.	REV
B	071M16	647.9300	N/C
SCALE: NONE			

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISION		DATE	APPROVED
REV.	DESCRIPTION		



SECTION Q-Q



SECTION R-R

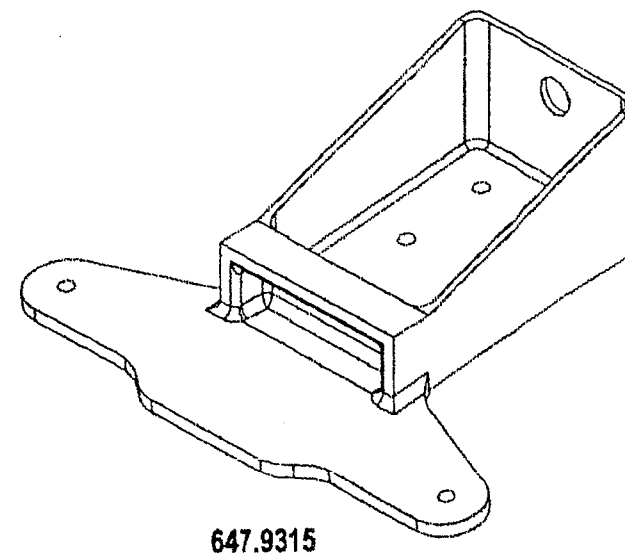
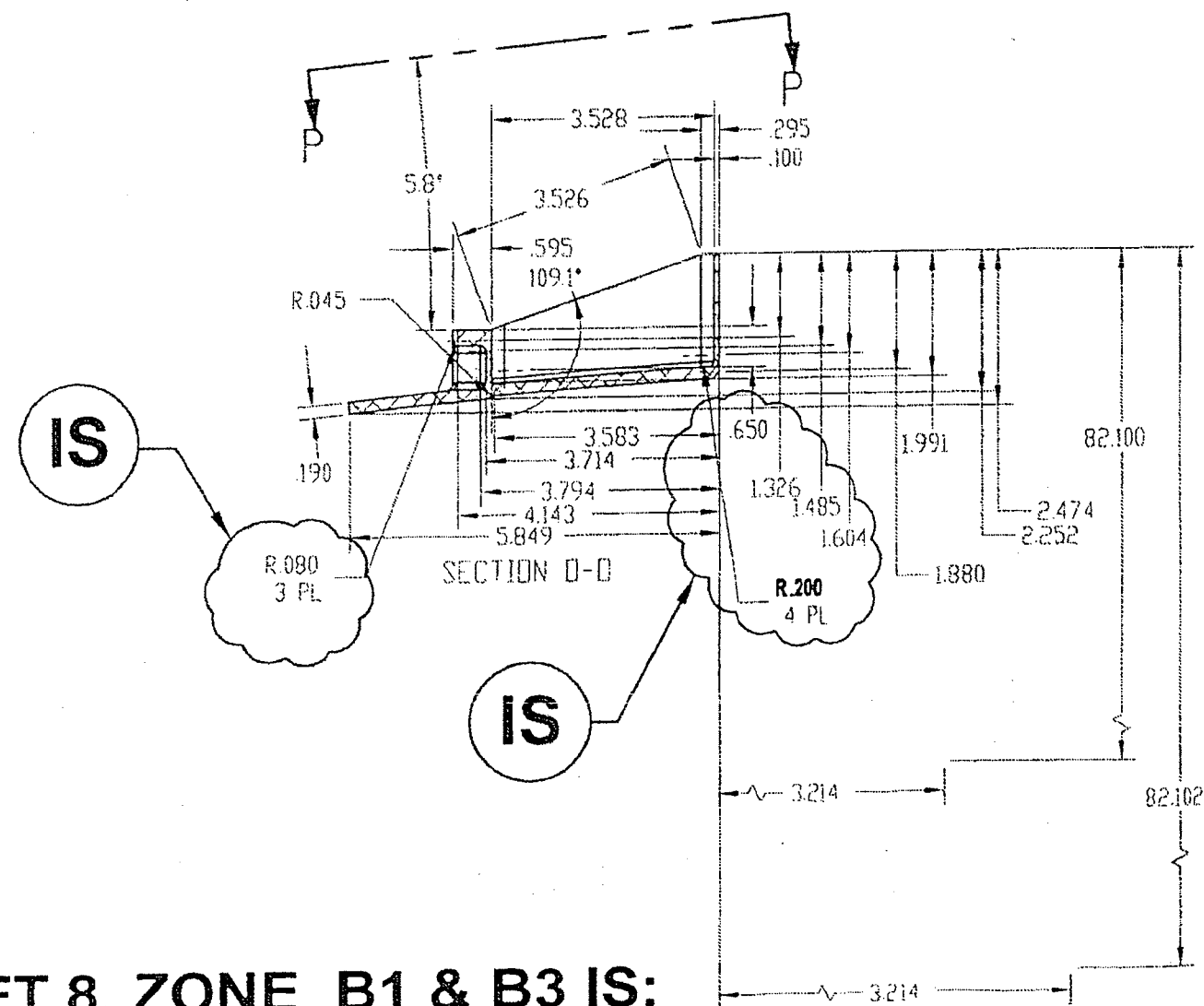
RECEIVED
APR 16/19

ORIGINAL DATE 1900-04-19 09:01:10		APICAL INDUSTRIES	
DRAWN BY F. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY F. BRAVO		BRACKETS	
DRAWING APPROVAL F. BRAVO		101 CAGE CODE B 07M26	DWG. NO. 647.9300
CONTRACT NO.		SCALE NONE	SHEET 9 OF 9

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03706				SHEET 1 OF 2	
	DWG NO. 647.9300	REV: N/C	PREPARED BY B. PETERS	DATE: 11/16/12	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: BRACKETS					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: NEXT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REVISED RADII ON 647.9315.			EQR: D-12-012	

SHEET 1, ZONE B4, NOTE 10 IS:

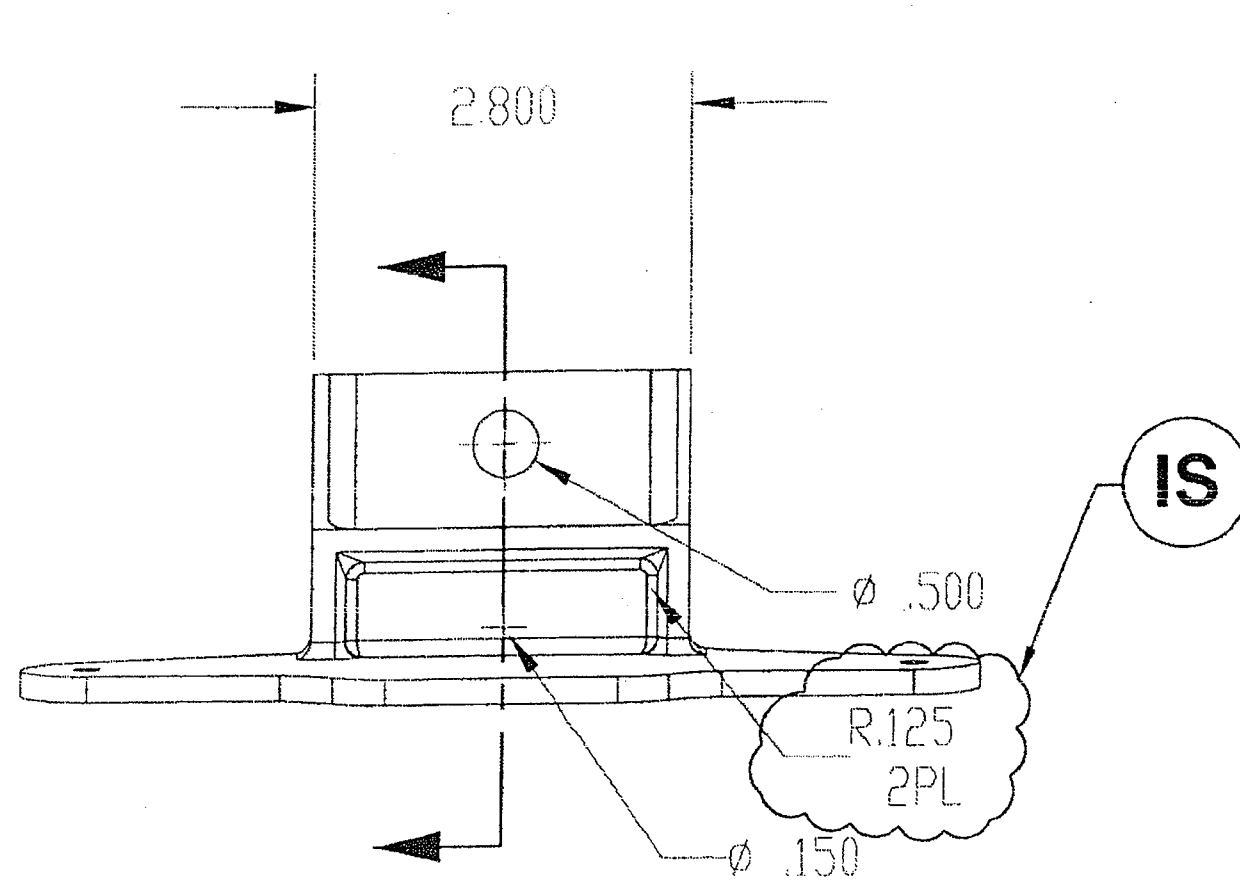
10 PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9315 RECEPTACLE BRACKET.SLDPRJT, LAST MODIFIED 11-16-12.



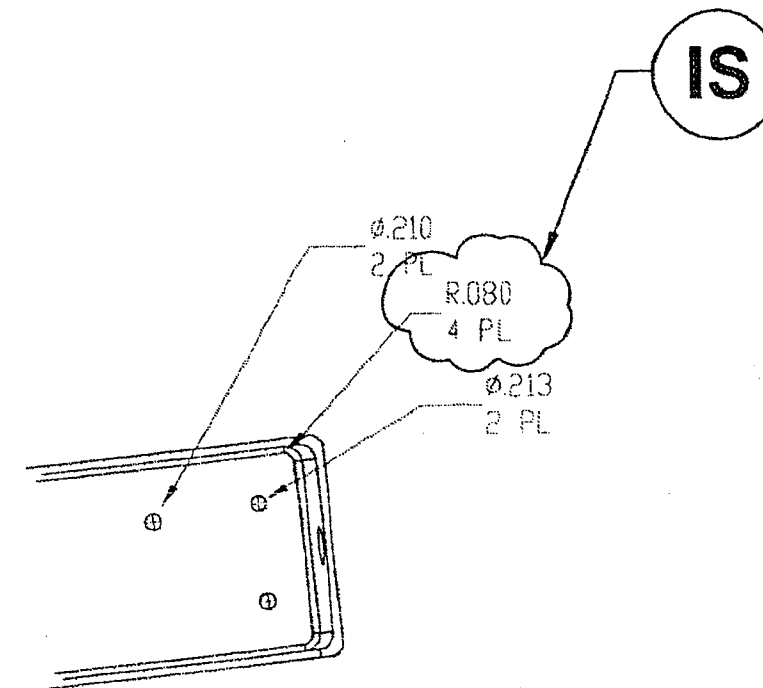
SHEET 8, ZONE A7 IS:

SHEET 8, ZONE B1 & B3 IS:

DOCUMENTS EFFECTED:	<input type="checkbox"/> RFMS <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUCC <input type="checkbox"/> ICA <input type="checkbox"/> BOM	CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
---------------------	--	---	--



SHEET 8, ZONE B6 IS:



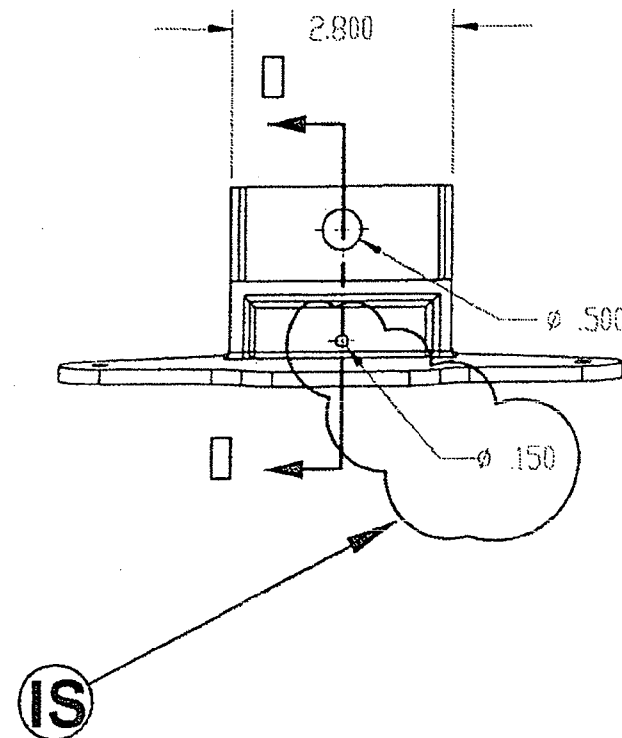
SECTION P-P

SHEET 8, ZONE B8 IS:

RECEIVED
APR 16 1994

F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION
-----	----	-------------	-----	-------------	------------------------

SHEET 8, ZONE B5:



RECEIVED
OCT 16 1994

F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23220**

Purchase Order Date 3/4/2014

PO Print Date 8/19/2014

Page Number 2 of 2

Order From :

E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610

VC-ETM001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

RENFREW, ONTARIO K7V 4E7
CANADA

Contact Name

Vendor Phone 613-432-6136

Ship To Contact

Ship To Phone

Ship Via: FedEx PI collect

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

3	71401-45	5/2/2014	0.00	\$0.00	\$0.00
		No	Each		

Procurement Quality Clauses

5/2/2014

A005 RIGHT OF ENTRY

A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER,
(DOCUMENTATION SENT TO DART AEROSPACE)

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS
APPLICABLE)

A024 PROCESS CERTIFICATIONS

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

Line Total: \$0.0

4 647.9316P

Crossbar Bracket

8/19/2014

Yes

8/19/2014

3.00

Each

\$215.00

\$645.0

Part being returned for rework.
NCR14-045

8/14-8-19

Line Total: \$645.0

PO Total: \$5,594.0

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 9

Change Date: 8/19/2014

PACKING SLIP

E.T.M. Industries Inc.

266 Hall Avenue East
Renfrew ON K7V 2S5
TEL: 613-432-6136

JOHN D.

DATE: AUG. 18, 2014

CARRIER: PUROLATOR
PHONE 613-632-5200

DART AEROSPACE
1270 ABERDEEN ST.
HAWKESBURY, ON.,
K6A 1K7

[illegible]

CERTIFICATE OF COMPLIANCE

I HEREBY CERTIFY THAT THE MATERIAL DESCRIBED ABOVE IS IN CONFORMANCE WITH THE APPLICABLE PHYSICAL & DIMENSIONAL SPECIFICATIONS; THAT IT WAS MANUFACTURED IN ACCORDANCE WITH APPLICABLE PROCESS SPECIFICATIONS; AND HAS BEEN INSPECTED TO VERIFY CONFORMANCE TO THOSE SPECIFICATIONS.

~~Approved Signatory (Quality Assurance)~~

BLrev02Jan04

List Lots

Page 1 of 1

Tuesday, December 09, 2014 11:36:57 AM

Criteria : Item ID: 647.9316 All Locations All Warehouses All Quantity

Item ID Item Name	Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt Lot Code	Type Code	Comments
647.9316 Crossbar Bracket	Main Warehouse CCK071	115397	11/7/2014	3.0000	QC21		
	Main Warehouse CCK071	95527	11/7/2014	2.0000	QC21		
	Main Warehouse CCK071	m129311	11/7/2014	4.0000			
Total:				9.0000			